

High School to College and Career Pathway: Post-Secondary

Area of Study: Technology & Engineering Educ.

Pathway: Pre-Engineering

Region: Wasatch Front	District:	School:	College/Institution: Salt Lake Community College Articulation Agreement in place? Yes Name of Degree or Certificate: Electrical Engineering, Associate of Pre-Engineering Transfer Degree
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High School				College		
Course CIP #	CTE Pathway Courses (4 credits for completion)	H.S. Credit	College Credits	Course #	College Major Course Requirements	College Credits
Course #	Foundation Courses: (2.5 required)	Credit				
21.0122	Principles of Engineering	1.00				
21.0120	Engineering Design, Introduction	1.00				
21.0121	Digital Electronics	1.00				
	<i>Choose one of the following courses:</i>					
21.0123	Computer Integrated Manufacturing	1.00				
21.0125	Civil Engineering & Architecture	1.00				
	Aerospace Engineering	1.00				
21.0124	Engineering Design & Development	1.00				
	Elective Courses: (choose 1.5 credits)					
48.0101	Drafting/CAD	1.00				
47.0105	Electronics	1.00				
48.0503	Machine Tool	1.00				
32.0199	Student Internship (Critical Workplce Skills)	.50				
				CHE 2300	Engineering Thermodynamics	2
				CS 1600	Structural Programming	4
				EE 1010	Lab Instruments and Methods	1
				EE 1020	Elect Engineering Problems with Matlab	1
				EE 1030	UNIX for Electrical Engineering Students	.5
				EE 1270	Introduction to Electrical Circuits	4
				EE 2270	Fundamentals of electrical Circuits	4
				EE 2280	Fundamentals of Engineering Electronics	4
				EE 2700	Fundamentals of Digital System Design	4
				MATH 1220	Calculus II	4
				MATH 2210	Multivariate Calculus	3
				MATH 2250	Differential Equations/Linear Algebra	3
				PHYS 2210	Physics for Science & Engineering I	4
				PHYS 2220	Physics for Science & Engineering II	4
				PHYS 2215	Physics for Science & Engineering Lab I	1

					ELECTIVES (Optional) May be required at some transfer institutions. See advisor. -CS 1410 Object Oriented Programming (4) -CS 2420 Introduction to Algorithms/Data (4) -EE 2000 CO-OP Education (1-2) -EE 2020 PSpice & Electronic Workbench (1)	
	<u>Additional Articulated Classes Below</u>	<u>Credit</u>				
	CHEM 1210 Chemistry W/Lab Conc Enrol*	1	4 ⇨	CHEM 1210	General Chemistry I	4
			1 ⇨	CHEM 1215	General Chemistry Lab I	1
TOTAL Potential Credits Earned in High School			24	TOTAL Credits Required for Degree or Certificate		70.5

Note: This is a regional agreement. Some classes and some concurrent enrollment agreements may not be available in your particular high school. See your individual school for specific program offering. **Note:** *= concurrent ^= distant

Note: Requirements may change year-to-year. It is the student's responsibility to verify information by consulting with an SLCC department advisor.

Note: It is essential that students, while in high school, take as much mathematics, chemistry, physics and English as possible.

Note: This is designed to be a transfer degree to a university. Additional upper-division General Education courses will be required at the receiving institution. Regarding transferring from SLCC to a university program, students should consult with academic advisors at both institutions.